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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/079,767	02/19/2002		Jens Graf	10191/2246 7845	
26646	7590	12/27/2004		EXAM	INER
KENYON & ONE BROAD	-	N	NGUYEN, THAN VINH		
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER	
				2187	

DATE MAILED: 12/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.





UNITED STATES DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION		ATTORNEY DOCKET NO.
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				EXAMINER
•			ART UNIT	PAPER
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			DATE MAILED	ı:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

Than Nguyen Examiner Art Unit: 2187

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	Application No.	Applicant(s)
Office Asticus Commences	10/079,767	GRAF ET AL.
Office Action Summary	Examiner	Art Unit
	Than Nguyen	2187
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status ·		
 1) Responsive to communication(s) filed on 12 Octobriance 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allower closed in accordance with the practice under Exercise 	action is non-final.	
Disposition of Claims		
4) ☐ Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or		
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/12/04 has been entered.

- 2. Claims 1-8 are pending.
- 3. The amendment, filed 9/21/04, has been entered.

Response to Amendment

4. Applicant's amendment introduced new limitations to the claims. These limitations are addressed below. The Examiner has addressed the new limitations of writing the command and data independently to one another. The Examiner has also included motivation and rulings for the cited motivation to combine teachings in the 103 rejections.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claim1-8 rejected under 35 U.S.C. 103(a) as being unpatentable over by Norman et al (US 6567335).

As to claim 1:

7. Norman discloses a memory system having a memory controller connected to multiple memory devices. Norman discloses the claimed memory arrangement comprising: a programmable memory (flash memory 38; 4/48-67); a first buffer memory associated with the programmable memory, to which first buffer memory, in the case of a command access, at least one command following the accessed command is written (command buffer 48 stores/buffers commands going to command decode logic; Fig. 4; 3/5-12, 5/60-67; claim 29,32); and a second buffer memory to which, in the case of a data access, at least one datum following the accessed datum is written (data buffer 52 stores data from memory array; Fig. 4; 6/7-12, 13-20, 25-30; claim 29,32). The commands going into buffer 48 and data entering buffer 52 are written independently of one another (data going to buffer 48 and 52 are independent of one another; Fig. 4; 5/56-6/20). Norman does not specifically teach the first buffer and second buffer is integrated in the flash memory. The courts also have found that forming a single integral element from multiple elements would be a matter of obvious engineering choice and would be obvious one of ordinary skills in the art (In re Larson, 340 F.2d 965, 968, 144 USPQ 347, 349 (CCPA 1965). Thus, it would have been obvious to one of ordinary skills in the art at the time of the invention to integrate the first and second buffers in the flash memory of Norman.

As to claim 2:

1. Norman discloses the programmable memory includes a burst flash memory (flash memory 38; 4/48-67).

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As to claim 3,7,8:

2. Norman teaches the second buffer memory is loaded only in the case of a data access (data input buffer 52 stores temporary data upon read; 6/7-12, 13-20,25-30; 8/40-50).

As to claim 4:

3. Norman teaches content of the first buffer memory (command input buffer 48-51) is not changed when the at least one datum is subsequently read from the second buffer memory (command buffer 48 and data buffer 52 not affected by one another (Figure 4).

As to claims 5-6:

4. Norman discloses a memory system having a memory controller connected to multiple memory devices. Norman discloses the claimed method for performing at least one of a command access and a data access during a program execution in connection with a programmable memory, comprising the steps of: recognizing in the case of a command access that a command access is present; recognizing in the case of a data access that a data access is present; writing a command following the accessed command to a first buffer memory; and writing a datum following the accessed datum to a second buffer memory (command input buffer 48 stores/buffers commands going to command decode logic; Fig. 4; 3/5-12, 5/60-67; claim 29,32; data buffer 52 stores data from memory array; Fig. 4; 6/7-12, 13-20, 25-30; claim 29).). The commands going into buffer 48 and data entering buffer 52 are written independently of one another (data going to buffer 48 and 52 are independent of one another; Fig. 4; 5/56-6/20). Norman does not specifically teach the first buffer and second buffer is integrated in the flash memory. It is well known in the art of memory design to integrate multiple devices onto a single

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chip to provide for faster access, smaller footprint/size, and reduced cost. The courts also have found that forming a single integral element from multiple elements would be a matter of obvious engineering choice and would be obvious one of ordinary skills in the art (In re Larson, 340 F.2d 965, 968, 144 USPQ 347, 349 (CCPA 1965). Therefore, it would have been obvious to one of ordinary skills in the art at the time of the invention to integrate the first and second buffers in the flash memory of Norman.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Than Nguyen whose telephone number is 571-272-4198. The examiner can normally be reached on 8am-3pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on (571)272-4201. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Than Ngulyen Examiner

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